CLAIM AMENDMENTS

Please amend claims 7, 8 as follows:

1. (Previously Amended) A method, comprising:

automatically providing a plurality of color values as input to an image processing device, wherein said image processing device is under a control of a particular dimensional order;

dynamically determining which color value among said plurality of color values has attained a gamut limit;

transforming said particular dimensional order of said color which was determined to have attained said gamut limit, in response to dynamically determining which color value among said plurality of color values has attained gamut limit; and

thereafter automatically reducing said particular dimensional order through use of a dedicated gamut mapping function utilized to determine surface points and axes, thereby allowing for an improved estimate of said color based on said reduced dimensional order, thereby providing improved control for colors that are located external to said gamut and maintaining said color's hue.

2. (Previously Amended) The method of claim 1

wherein a color sensor is used in dynamically determining which color value among said plurality of color values has attained a gamut limit.

- 3. (Previously Amended) The method of claim 1 wherein said particular dimensional order comprises a three-dimensional order represented by the colors cyan, magenta, and yellow.
- 4. (Previously Amended) The method of claim 3 wherein reducing said particular dimensional order, further comprises:

reducing said three-dimensional order to a two-dimensional order.

5. (Previously Amended) The method of claim 3 wherein reducing said particular dimensional order, further comprises:

reducing said three-dimensional order to a one-dimensional order.

6. (Previously Amended) The method of claim 1 wherein a ray-based approach consisting of a ray being drawn from a desired color to a point on a neutral axis through said gamut limit is used to perform said gamut mapping

7. (Currently Amended) The method of claim <u>6</u> wherein said color sensor comprises an offline sensor.

8. (Currently Amended) The method of claim $\underline{6}$ wherein said color sensor comprises an inline sensor.

9. (Previously Amended) A method, comprising:

automatically providing a plurality of color values as input to an image processing device, wherein said image processing device is under a control of a three-dimensional order;

dynamically determining utilizing a color sensor, which color among said plurality of colors has attained said gamut limit, wherein said determined color is comprised of a plurality of the colors cyan, magenta, and yellow representing said three-dimensional order;

transforming said three-dimensional order, in response to dynamically determining which color among said plurality of three colors cyan, magenta, and yellow has attained said gamut limit; and

automatically reducing said three-dimensional order, thereby providing improved control for colors that are located external to said gamut.

10. (Previously Amended) A system, comprising:

a plurality of color values automatically provided as input to an image processing device, wherein said image processing device is under a control of

a particular dimensional order;

a color sensor for dynamically determining which color value among

said plurality of color values has attained a gamut limit;

an iterative controller; and

a transformation module provided within said iterative controller for

automatically reducing said particular dimensional order based on

determining which color value among said plurality of color values has

attained said gamut limit, thereby providing improved control for colors that

are located external to said gamut.

11. (Original) The system of claim 10 wherein said transformation module

further comprises a transformation module for transforming said particular

dimensional order, in response to dynamically determining which color value

among said plurality of color values has attained gamut limit.

12. (Original) The system of claim 10 wherein said particular dimensional

order comprises a three-dimensional order.

13. (Previously Amended) The system of claim 12 wherein said

transformation module further comprises a compensation module for

reducing said three-dimensional order to a two-dimensional order using a

standard International Color Consortium (ICC) framework.

14. (Previously Amended) The system of claim 13 wherein said

compensation module reduces said three-dimensional order to said two-

dimensional order in response to determining which colors among said

plurality of colors have attained said gamut limit.

15. (Original) The system of claim 12 wherein said transformation module

further comprises a transformation module for reducing said three-

dimensional order to a one-dimensional order.

16. (Previously Amended) The system of claim 15 wherein said

transformation module reduces said three-dimensional order to said one-

dimensional order in response to determining which color among said

plurality of colors has attained said gamut limit.

17. (Previously Amended) The system of claim 10 wherein said color

sensor comprises an offline sensor.

18. (Previously Amended) The system of claim 10 wherein said color

sensor comprises an inline sensor.

19. (Previously Amended) The system of claim 10 further comprising a

color rendering device associated with said transformation module and

wherein said transformation module is integrated with said image processing

device.

20. (Previously Amended) The system of claim 10 wherein said iterative

controller's iterative output is input to said color rendering device, such that

said iterative output of said iterative controller reflects a plurality of

compensated color values requiring correction for rendering variations

thereof.

21. (Previously Amended) The system of claim 18 wherein said color

rendering device comprises a printer.

22. (Previously Amended) The system of claim 18 wherein said color

rendering device comprise a photocopy machine.

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